

試驗報告

KE/2017/42070A-01

日期: 2017/04/28

頁數: 第 1 頁, 共 10 頁

南亞塑膠工業股份有限公司
高雄市林園區工業一路 6 號

以下測試樣品係由客戶送樣, 且由客戶聲稱並經客戶確認如下:

產品名稱 : 感壓地毯糊
顏色 : 白色
型號 : CNFV
送樣廠商 : 南亞塑膠工業股份有限公司
樣品接收日期 : 2017/04/24
測試期間 : 2017/04/24 ~ 2017/04/28

測試要求:

- 基於歐洲化學品管理署截止 2017 年 1 月 12 日公佈的供授權審議的高關注物質候選清單(根據歐盟第 1907/2006 號 REACH 法規), 對 173 種高關注物質進行篩分測試。

測試方法: 請參見下一頁

總結:

根據具體的測試範圍和分析技術, 樣品中測試的高關注物質濃度都 ≤ 0.1%(w/w)。 通過

此為 2017/04/28 所發行 KE/2017/42070 之加發報告, 原始資料請參考 KE/2017/42070。


報告簽署人 / 董展榮 技術經理





化學實驗室-高雄

試驗報告

KE/2017/42070A-01

日期：2017/04/28

頁數：第 2 頁，共 10 頁

備註：

- (1) 本報告所涉及的關於特定高關注物質的化學分析是根據歐洲化學品管理署發佈的下列檔，利用現有的分析技術完成的。

<http://echa.europa.eu/web/guest/candidate-list-table> (候選清單)

這些檔清單由歐洲化學品管理署評估，將來可能有變化。

- (2) 根據歐盟第 1907/2006 (EC) 號法規，如果滿足以下兩個條件，如果物質符合第 57 條中的標準並根據第 59 條第一款被確定，物品的任何歐洲製造商或進口商應根據第 7 條第 4 款向歐盟化學品管理署進行通報：(a) 候選清單中的物質在物品中的總含量超過 1 噸/年/生產商或進口商；(b) 候選清單中的物質在物品中的總含量以品質分數計超過 0.1% 的濃度。
- (3) 歐盟第 1907/2006 (EC) 號法規第 33 條規定，含有滿足第 57 條中的標準並根據第 59 條第一款被確定且品質分數大於 0.1% 的物質的物品的所有供應商應向物品接受者提供其可獲取的充足資訊，以使物品使用安全，這些資訊至少包括含有的候選清單中物質的名稱。

測試樣品：

樣品外觀描述：

部件編號	描述
1	白色感壓地毯糊

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試驗報告

KE/2017/42070A-01

日期: 2017/04/28

頁數: 第 3 頁, 共 10 頁

測試方法:

SGS 內部方法, 採用 ICP-OES、GC-MS、GC-ECD、GC-FPD、UV-VIS、HPLC-DAD、HPLC-MS 和比色法。

測試結果: (每個部件):

No.	物質名稱	CAS No./ EC No.	RL (%)	濃度 (%)
				1
139	分支或線性的乙氧基壬基酚, 包括含有 9 個碳烷基鏈的所有獨立的同分異構體和所有含有線性或分支 9 個碳烷基鏈的 UVCB 物質	-	0.010	0.0378

注釋:

- (1) RL = 報告極限值, 所有 RL 是基於均一材質的測試。
n.d. = 未檢出(<RL)
- (2) * 測試結果是由選定的元素或標記物的結果並基於最壞的情況計算得出。詳細資訊請參見 SGS REACH 網站:

<http://www.sgs.com/en/Consumer-Goods-Retail/Toys-and-Juvenile-Products/Toys/REACH/Management-of-SVHC.aspx>

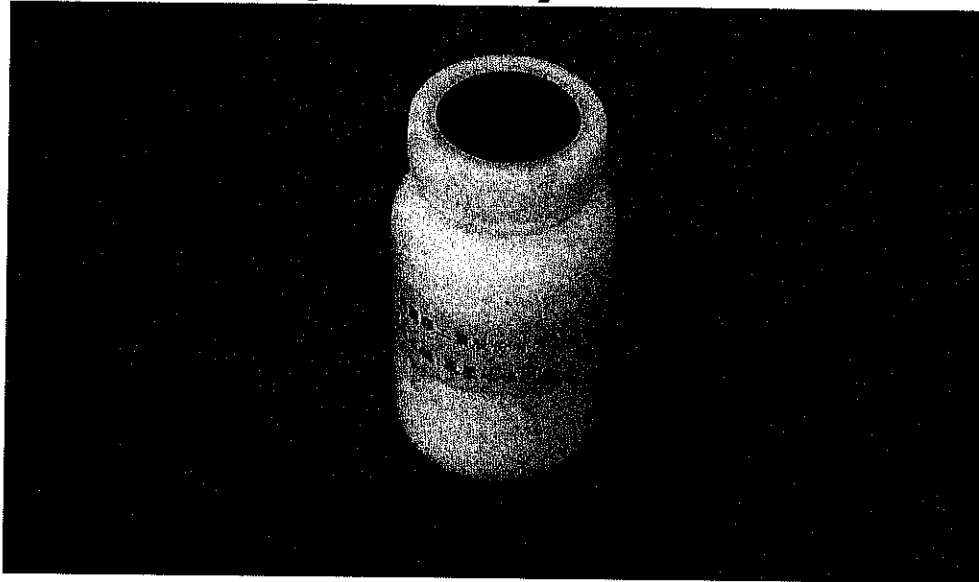
建議客戶應審查其化學配方, 以確定上述金屬物質是否存在於物品中。

RL = 0.001% 是針對元素 (例如鋁、鎘、砷、鋇、硼、鎳、鈣、鉻、鉻(VI)、鈷、鉛、鉀、鈦、矽、鈉、鎳、鋅和鎳), 除了鉬的 RL= 0.0001%。

- (3) 以上表格只列出被檢出的 SVHC, 經測試 SVHC 的完整列表及其相應的報告極限值請參閱附錄。低於報告極限值的 SVHC 將不會被報告。

樣品照片：

KE/2017/42070



SGS 僅對原報告照片中的樣品負責

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附錄

No.	物質名稱	CAS No./ EC No.	RL (%)	No.	物質名稱	CAS No./ EC No.	RL (%)
2008 年 10 月 28 日公佈的供授權審議的高關注物質候選清單							
1	4,4'-二氯二苯甲烷(MDA)	101-77-9/ 202-974-4	0.010	2	二甲苯麝香	81-15-2/ 201-329-4	0.010
3	短鏈氯化石蠟	85535-84-8/ 287-476-5	0.010	4	蔥	120-12-7/ 204-371-1	0.010
5	鄰苯二甲酸甲苯基丁酯	85-68-7/ 201-622-7	0.010	6	鄰苯二甲酸二(2-乙基己基)酯 (DEHP)	117-81-7/ 204-211-0	0.010
7	氧化雙三丁基錫(TBTO)	56-35-9/ 200-268-0	0.010	8	二氯化鈷*	7646-79-9/ 231-589-4	0.001
9	五氧化二砷*	1303-28-2/ 215-116-9	0.001	10	三氧化二砷*	1327-53-3/ 215-481-4	0.001
11	鄰苯二甲酸二丁酯(DBP)	84-74-2/ 201-557-4	0.010	12	六溴環十二烷及其主要異構物	25637-99-4/ 247-148-4; 3194-55-6/ 221-695-9; (134237-50-6/-; 134237-51-7/-; 134237-52-8/-)	0.010
13	砷酸氫鉛*	7784-40-9/ 232-064-2	0.001	14	重鉻酸鈉*	7789-12-0 10588-01-9/ 234-190-3	0.001
15	三乙基砷酸酯*	15606-95-8/ 427-700-2	0.001				
2010 年 1 月 13 日公佈的供授權審議的高關注物質候選清單							
16	2,4-二硝基甲苯	121-14-2/ 204-450-0	0.010	17	蔥油*	90640-80-5/ 292-602-7	0.010
18	蔥油，蔥糊*	90640-81-6/ 292-603-2	0.010	19	蔥油，蔥糊，蔥餡分*	91995-15-2/ 295-275-9	0.010
20	蔥油，蔥糊，輕油*	91995-17-4/ 295-278-5	0.010	21	蔥油，含蔥量少*	90640-82-7/ 292-604-8	0.010
22	鄰苯二甲酸二異丁酯	84-69-5/ 201-553-2	0.010	23	紅色鉻鉻酸鉛硫酸鹽 色彩索引：顏料紅 104*	12656-85-8/ 235-759-9	0.001
24	鉻酸鉛*	7758-97-6/ 231-846-0	0.001	25	鉻酸鉛；色彩索引：顏料黃 34*	1344-37-2/ 215-693-7	0.001
26	煤瀝青，高溫*	65996-93-2/ 266-028-2	0.010	27	磷酸三(2-氯乙基)酯	115-96-8/ 204-118-5	0.010
2010 年 3 月 30 日公佈的供授權審議的高關注物質候選清單							
28	丙烯醯胺	79-06-1/ 201-173-7	0.010				
2010 年 6 月 18 日公佈的供授權審議的高關注物質候選清單							
29	重鉻酸鉍*	7789-09-5/ 232-143-1	0.001	30	硼酸*	10043-35-3/ 233-139-2; 11113-50-1/ 234-343-4	0.001

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化學實驗室-高雄

試驗報告

KE/2017/42070A-01

日期：2017/04/28

頁數：第 6 頁，共 10 頁

No.	物質名稱	CAS No./ EC No.	RL (%)	No.	物質名稱	CAS No./ EC No.	RL (%)
31	無水四硼酸二鈉*	1303-96-4 1330-43-4 12179-04-3/ 215-540-4	0.001	32	鉻酸鉀*	7789-00-6/ 232-140-5	0.001
33	重鉻酸鉀*	7778-50-9/ 231-906-6	0.001	34	鉻酸鈉*	7775-11-3/ 231-889-5	0.001
35	水合硼酸鈉*	12267-73-1/ 235-541-3	0.001	36	三氯乙烯	79-01-6/ 201-167-4	0.010

2010年12月15日公佈的供授權審議的高關注物質候選清單

37	乙二醇乙醚	110-80-5/ 203-804-1	0.010	38	乙二醇甲醚	109-86-4/ 203-713-7	0.010
39	從三氧化鉻與其他寡聚體生成的酸類:鉻酸,重鉻酸,鉻酸與重鉻酸的寡聚體*	7738-94-5/ 231-801-5; 13530-68-2/ 236-881-5	0.001	40	三氧化鉻*	1333-82-0/ 215-607-8	0.001
41	碳酸鈷(二價)*	513-79-1/ 208-169-4	0.001	42	醋酸鈷(二價)*	71-48-7/ 200-755-8	0.001
43	硝酸鈷(二價)*	10141-05-6/ 233-402-1	0.001	44	硫酸鈷(二價)*	10124-43-3/ 233-334-2	0.001

2011年6月20日公佈的供授權審議的高關注物質候選清單

45	1,2,3-三氯丙烷	96-18-4/ 202-486-1	0.010	46	1,2-苯二酸二(C6-8支鏈)烷基酯(富C7)	71888-89-6/ 276-158-1	0.010
47	1,2-苯二酸二(C7-11支鏈與直鏈)烷基(醇)酯	68515-42-4/ 271-084-6	0.010	48	N-甲基吡咯烷酮	872-50-4/ 212-828-1	0.010
49	乙二醇乙醚乙酸酯	111-15-9/ 203-839-2	0.010	50	聯氨	7803-57-8 302-01-2/ 206-114-9	0.010
51	鉻酸鋇*	7789-06-2/ 232-142-6	0.001				

2011年12月19日公佈的供授權審議的高關注物質候選清單

52	1,2-二氯乙烷	107-06-2/ 203-458-1	0.010	53	2,2'-二氯-4,4'-二氨基二苯甲烷	101-14-4/ 202-918-9	0.010
54	鄰甲氧基苯胺	90-04-0/ 201-963-1	0.010	55	對特辛基苯酚/辛基酚	140-66-9/ 205-426-2	0.010
56	矽酸鋁, 耐火陶瓷纖維*	650-017-00-8 (Index no.)	0.001	57	砷酸*	7778-39-4/ 231-901-9	0.001
58	雙(2-甲氧基乙基)醚	111-96-6/ 203-924-4	0.010	59	鄰苯二甲酸雙(2-甲氧基乙基)酯	117-82-8/ 204-212-6	0.010
60	砷酸鈣*	7778-44-1/ 231-904-5	0.001	61	鉻酸鉻*	24613-89-6/ 246-356-2	0.001
62	甲醛與苯胺的寡聚反應物	25214-70-4/ 500-036-1	0.010	63	迭氮化鉛*	13424-46-9/ 236-542-1	0.001

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化學實驗室-高雄

試驗報告

KE/2017/42070A-01

日期：2017/04/28

頁數：第 7 頁，共 10 頁

No.	物質名稱	CAS No./ EC No.	RL (%)	No.	物質名稱	CAS No./ EC No.	RL (%)
64	苦味酸鉛*	6477-64-1/ 229-335-2	0.001	65	中性斯蒂酚酸鉛*	15245-44-0/ 239-290-0	0.001
66	N,N-二甲基乙醯胺	127-19-5/ 204-826-4	0.010	67	八氫氧化五鉻酸鋅*	49663-84-5/ 256-418-0	0.001
68	酚酞	77-09-8/ 201-004-7	0.010	69	氫氧化鉻酸鋅鉀*	11103-86-9/ 234-329-8	0.001
70	砷酸鉛*	3687-31-8/ 222-979-5	0.001	71	鋇矽酸鋁耐火陶瓷纖維*	650-017-00-8 (Index no.)	0.001
2012年6月18日公佈的供授權審議的高關注物質候選清單							
72	C.I.鹼性藍 26	2580-56-5/ 219-943-6	0.010	73	C.I.鹼性紫 3	548-62-9/ 208-953-6	0.010
74	三甘醇二甲醚	112-49-2/ 203-977-3	0.010	75	乙二醇二甲醚	110-71-4/ 203-794-9	0.010
76	4,4'-二(二甲氨基)二苯甲酮(米氏酮)	90-94-8/ 202-027-5	0.010	77	4,4'-二(二甲氨基)-4''-甲氨基三苯甲醇	561-41-1/ 209-218-2	0.010
78	三氧化二硼*	1303-86-2/ 215-125-8	0.001	79	甲醯胺	75-12-7/ 200-842-0	0.010
80	甲基磺酸鉛*	17570-76-2/ 401-750-5	0.001	81	4,4'-(對二甲氨基)二苯基甲烷(米氏域)	101-61-1/ 202-959-2	0.010
82	異氰尿酸三縮水甘油酯	2451-62-9/ 219-514-3	0.010	83	C.I.溶劑藍 4	6786-83-0/ 229-851-8	0.010
84	異氰尿酸 β-三縮水甘油酯	59653-74-6/ 423-400-0	0.010				
2012年12月19日公佈的供授權審議的高關注物質候選清單							
85	[1,2-苯二羧酸根合]二氧化三鉛*	69011-06-9/ 273-688-5	0.001	86	支鏈與直鏈 1,2-苯二酸二戊酯	84777-06-0/ 284-032-2	0.010
87	乙二醇二乙醚	629-14-1/ 211-076-1	0.010	88	正丙基溴	106-94-5/ 203-445-0	0.010
89	3-乙基-2-甲基-2-(3-甲基丁基)-1,3-惡唑烷	143860-04-2/ 421-150-7	0.010	90	4-(1,1,3,3-四甲基丁基)苯酚, 乙氧基-以及所有的被定義的物質, 未知成分或可變成分的物質, 聚合物和同系物	-	0.010
91	4,4'-二氨基-3,3'-二甲基聯苯基甲烷	838-88-0/ 212-658-8	0.010	92	4,4'-二氨基二苯醚	101-80-4/ 202-977-0	0.010
93	4-苯基偶氨基苯胺	60-09-3/ 200-453-6	0.010	94	2,4-二氨基甲苯	95-80-7/ 202-453-1	0.010
95	分支或線性的壬基酚, 包括含有 9 個碳烷基鏈的所有獨立的同分異構體和所有含有線性或分支 9 個碳烷基鏈的 UVCB 物質	-	0.010	96	3-甲基-6-甲氧基苯胺	120-71-8/ 204-419-1	0.010
97	城式乙酸鉛*	51404-69-4/ 257-175-3	0.001	98	4-氨基聯苯	92-67-1/ 202-177-1	0.010

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TWC1427159

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台灣檢驗科技股份有限公司

No.61, Kai-Fa Road, Nanzih Export Processing Zone, Kaohsiung, Taiwan / 高雄市楠梓加工出口區開發路61號
t (886-7) 301-2121 f (886-7) 301-0867

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化學實驗室-高雄

試驗報告

KE/2017/42070A-01

日期: 2017/04/28

頁數: 第 8 頁, 共 10 頁

No.	物質名稱	CAS No./ EC No.	RL (%)	No.	物質名稱	CAS No./ EC No.	RL (%)
99	十溴聯苯醚	1163-19-5/ 214-604-9	0.010	100	偶氮二甲醯胺	123-77-3/ 204-650-8	0.010
101	二氯二丁基錫	683-18-1/ 211-670-0	0.010	102	硫酸二乙酯	64-67-5/ 200-589-6	0.010
103	鄰苯二甲酸二異戊酯	605-50-5/ 210-088-4	0.010	104	硫酸二甲酯	77-78-1/ 201-058-1	0.010
105	2-(1-甲基丙基)-4,6-二硝基苯 酚	88-85-7/ 201-861-7	0.010	106	雙(十八酸基)二氧代三鉛*	12578-12-0/ 235-702-8	0.001
107	C16-18-脂肪酸鉛鹽*	91031-62-8/ 292-966-7	0.001	108	呋喃	110-00-9/ 203-727-3	0.010
109	全氟十一酸	2058-94-8/ 218-165-4	0.010	110	全氟十四酸	376-06-7/ 206-803-4	0.010
111	六氫苯二甲酸酐	85-42-7, 13149-00-3, 14166-21-3/ 201-604-9, 236-086-3, 238-009-9	0.010	112	甲基六氫苯酐, 4-甲基六氫苯酐 1-甲基六氫苯酐 3-甲基六氫苯酐	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9/ 247-094-1, 243-072-0, 256-356-4, 260-566-1	0.010
113	四氟硼酸鉛*	13814-96-5/ 237-486-0	0.001	114	氨基氟鉛鹽*	20837-86-9/ 244-073-9	0.001
115	硝酸鉛*	10099-74-8/ 233-245-9	0.001	116	氧化鉛*	1317-36-8/ 215-267-0	0.001
117	城式硫酸鉛*	12036-76-9/ 234-853-7	0.001	118	四氧化三鉛*	1314-41-6/ 215-235-6	0.001
119	鈦酸鉛*	12060-00-3/ 235-038-9	0.001	120	鈦酸鉛鉛*	12626-81-2/ 235-727-4	0.001
121	甲氧基乙酸	625-45-6/ 210-894-6	0.010	122	N,N-二甲基甲醯胺	68-12-2/ 200-679-5	0.010
123	N-甲基乙醯胺	79-16-3/ 201-182-6	0.010	124	鄰苯二甲酸正戊基異戊基酯	776297-69-9 /-	0.010
125	鄰-氨基偶氮甲苯	97-56-3/ 202-591-2	0.010	126	鄰甲苯胺	95-53-4/ 202-429-0	0.010
127	全氟十三烷酸	72629-94-8/ 276-745-2	0.010	128	氧化鉛與硫酸鉛的複合物*	12065-90-6/ 235-067-7	0.001
129	環氧丙烷	75-56-9/ 200-879-2	0.010	130	C.I.顏料黃 41*	8012-00-8/ 232-382-1	0.001
131	含鉛矽酸鋇*	68784-75-8/ 272-271-5	0.001	132	矽酸鉛*	11120-22-2/ 234-363-3	0.001
133	亞硫酸鉛 (II)*	62229-08-7/ 263-467-1	0.001	134	四乙基鉛*	78-00-2/ 201-075-4	0.001
135	三城式硫酸鉛/ C.I. 顏料白*	12202-17-4/ 235-380-9	0.001	136	全氟十二酸	307-55-1/ 206-203-2	0.010
137	城式碳酸鉛*	1319-46-6/ 215-290-6	0.001	138	磷酸氧化鉛*	12141-20-7/ 235-252-2	0.001

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化學實驗室-高雄

試驗報告

KE/2017/42070A-01

日期：2017/04/28

頁數：第 9 頁，共 10 頁

No.	物質名稱	CAS No./ EC No.	RL (%)	No.	物質名稱	CAS No./ EC No.	RL (%)
2013 年 6 月 20 日公佈的供授權審議的高關注物質候選清單							
139	分支或線性的乙氧基王基酚，包括含有 9 個碳烷基鏈的所有獨立的同分異構體和所有含有線性或分支 9 個碳烷基鏈的 UVCB 物質	-	0.010	140	全氟辛酸鉍	3825-26-1/ 223-320-4	0.010
141	鎘	7440-43-9/ 231-152-8	0.001	142	氧化鎘*	1306-19-0/ 215-146-2	0.001
143	鄰苯二甲酸二戊酯	131-18-0/ 205-017-9	0.010	144	全氟辛酸	335-67-1/ 206-397-9	0.010
2013 年 12 月 16 日公佈的供授權審議的高關注物質候選清單							
145	硫化鎘*	1306-23-6/ 215-147-8	0.001	146	鄰苯二甲酸二己酯	84-75-3/ 201-559-5	0.010
147	直接紅28	573-58-0/ 209-358-4	0.010	148	直接黑 38	1937-37-7/ 217-710-3	0.010
149	亞乙基硫脲	96-45-7/ 202-506-9	0.010	150	醋酸鉛*	301-04-2/ 206-104-4	0.001
151	磷酸三(二甲苯)酯	25155-23-1/ 246-677-8	0.010				
2014 年 6 月 16 日公佈的供授權審議的高關注物質候選清單							
152	鄰苯二甲酸二(支鏈與直鏈)己基酯	68515-50-4/ 271-093-5	0.010	153	氯化鎘*	10108-64-2/ 233-296-7	0.001
154	水合過硼酸鈉*	-/ 234-390-0; 239-172-9	0.001	155	過硼酸鈉*	7632-04-4/ 231-556-4	0.001
2014 年 12 月 17 日公佈的供授權審議的高關注物質候選清單							
156	2-苯並三唑-2-基-4,6-二叔丁基苯酚 (UV-320)	3846-71-7 / 223-346-6	0.010	157	2-(2H-苯並三唑-2-基)-4,6-二叔戊基苯酚 (UV-328)	25973-55-1 / 247-384-8	0.010
158	二正辛基-雙(2-乙基己基巰基乙酸酯)錫 (DOTE)	15571-58-1 / 239-622-4	0.010	159	二正辛基-雙(2-乙基己基巰基乙酸酯)錫 (DOTE) 和單辛基-三(2-乙基己基巰基乙酸酯)錫 (MOTE) 的反應物	/	0.010
160	氟化鎘*	7790-79-6 / 232-222-0	0.001	161	硫酸鎘*	10124-36-4; 31119-53-6 / 233-331-6	0.001
2015 年 6 月 15 日公佈的供授權審議的高關注物質候選清單							
162	1,2-苯二甲酸,二(C6-10)烷基酯; 1,2-苯二甲酸,混合二己二辛二癸酯,其中鄰苯二甲酸二己酯(EC號 201-559-5)必須 ≥0.3%	68515-51-5; 68648-93-1/ 271-094-0; 272-013-1	0.010	163	5-二級丁基-2-(2,4-二甲基環己-3-烯-1-基)-5-甲基-1,3-二惡烷[1], 5-二級丁基-2-(4,6-二甲基環己-3-烯-1-基)-5-甲基-1,3-二惡烷[2] [任何[1]和[2]或者其任意組合的單獨異構體或其任何組合]	/	0.010

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化學實驗室-高雄

試驗報告

KE/2017/42070A-01

日期: 2017/04/28

頁數: 第 10 頁, 共 10 頁

No.	物質名稱	CAS No./ EC No.	RL (%)	No.	物質名稱	CAS No./ EC No.	RL (%)
2015 年 12 月 17 日公佈的供授權審議的高關注物質候選清單							
164	1,3-丙磺酸內酯	1120-71-4 / 214-317-9	0.010	165	2,4-二叔丁基-6-(5-氯苯並三唑-2-基)苯酚 (UV-327)	3864-99-1 / 223-383-8	0.010
166	2-(2H-苯並三唑-2-基)-4-(叔丁基)-6-(仲丁基)苯酚 (UV-350)	36437-37-3 / 253-037-1	0.010	167	硝基苯	98-95-3 / 202-716-0	0.010
168	全氟王酸 (2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-十七氟王酸及其鈉鹽和銨鹽)	375-95-1; 21049-39-8; 4149-60-4 / 206-801-3	0.010				
2016 年 6 月 20 日公佈的供授權審議的高關注物質候選清單							
169	苯並(a)芘	50-32-8 / 200-028-5	0.010				
2017 年 1 月 12 日公佈的供授權審議的高關注物質候選清單							
170	4,4'-異亞丙基聯苯酚 (雙酚 A)	80-05-7 / 201-245-8	0.010	171	4-庚基(支鏈與直鏈)苯酚	-	0.010
172	全氟癸酸 (PFDA) 及其鈉鹽和銨鹽	335-76-2; 3830-45-3; 3108-42-7 / 206-400-3; -; 221-470-5	0.010	173	對叔戊基苯酚	80-46-6 / 201-280-9	0.010

注釋:

- (1) RL = 報告極限值, 所有 RL 是基於均一材質的測試。
- (2) * 測試結果是由選定的元素或標記物的結果並基於最壞的情況計算得出。詳細資訊請參見 SGS

REACH 網站:

<http://www.sgs.com/en/Consumer-Goods-Retail/Toys-and-Juvenile-Products/Toys/REACH/Management-of-SVHC.aspx>

建議客戶應審查其化學配方, 以確定上述金屬物質是否存在於物品中。

RL = 0.001% 是針對元素 (例如鋁、鎂、砷、鋇、硼、鎘、鈣、鉻、鉻(VI)、鈷、鉛、鉀、鈦、碲、鈉、鋇、鋅和鎳), 除了鉬的 RL= 0.0001%。

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SGS Taiwan Ltd. Chemical Laboratory-Kaohsiung

Test Report

KE/2017/42070

Date : Apr 28, 2017

Page 1 of 11

Nan Ya Plastics Corporation
No.6, Gongye 1st Rd., Linyuan Dist., Kaohsiung City 832, Taiwan (R.O.C.)

The following sample(s) was / were submitted and identified on behalf of the client as :

Product Name : Pressure Sensitive Adhesive for Rug
 Color : White
 Style / Item No. : CNFV
 Sample Submitted By : Nan Ya Plastics Corporation
 Date of Sample Received : Apr 24, 2017
 Testing Period : Apr 24, 2017 to Apr 28, 2017

Test Requested :

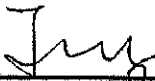
As requested by client, SVHC screening is performed according to:

- One hundred and seventy three (173) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before January 12, 2017 regarding Regulation (EC) No 1907/2006 concerning the REACH.

Test Result(s) : Please refer to next page(s).

Summary :

According to the specified scope and analytical techniques, concentrations of tested SVHC are $\leq 0.1\%$ (w/w) in the submitted sample.	PASS
---	------


 Jerry Tung / Manager - Tech
 Signed for and on behalf of
 SGS Taiwan Limited



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TWC1427176

SGS Taiwan Ltd.
台灣檢驗科技股份有限公司

No.61, Kai-Fa Road, Nanzih Export Processing Zone, Kaohsiung, Taiwan / 高雄市楠梓加工出口區開發路61號
t (886-7) 301-2121 f (886-7) 301-0867

www.sgs.tw
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SGS Taiwan Ltd. Chemical Laboratory-Kaohsiung

Test Report

KE/2017/42070

Date : Apr 28, 2017

Page 2 of 11

Remark :

1. The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the following SVHC related documents published by ECHA:

- <http://echa.europa.eu/web/guest/candidate-list-table> (Candidate list)

The lists are under evaluation by ECHA and may subject to change in the future.

2. In accordance with Regulation (EC) No 1907/2006, any EU producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation, if (a) the substance in the Candidate List is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance in the Candidate List is present in those articles above a concentration of 0.1% weight by weight (w/w).
3. Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance in the Candidate List.

Test Sample:

Sample Description:

Component No.	Component Description
1	White Pressure Sensitive Adhesive for Rug

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SGS Taiwan Ltd. Chemical Laboratory-Kaohsiung

Test Report

KE/2017/42070

Date : Apr 28, 2017

Page 3 of 11

Test Method :

SGS In-House method - Analyzed by ICP-OES, GC-MS, GC-ECD, GC-FPD, UV-VIS, HPLC-DAD, HPLC-MS and colorimetric method.

Test Result (Per individual component):

No.	Substance Name	CAS No./ EC No.	RL (%)	Concentration (%)
				1
139	4-Nonylphenol, branched and linear, ethoxylated	-	0.010	0.0378

Notes :

1. RL = Reporting Limit. All RL are based on homogenous material
n.d. = Not detected (lower than RL), n.d. is denoted on the SVHC substance.
2. * The test result is based on the calculation of selected element(s) / marker(s) and to the worst-case scenario. For detail information, please refer to the SGS REACH website:

<http://www.sgs.com/en/Consumer-Goods-Retail/Toys-and-Juvenile-Products/Toys/REACH/Management-of-SVHC.aspx>

The client is advised to review the chemical formulation to ascertain above metal substances present in the article.

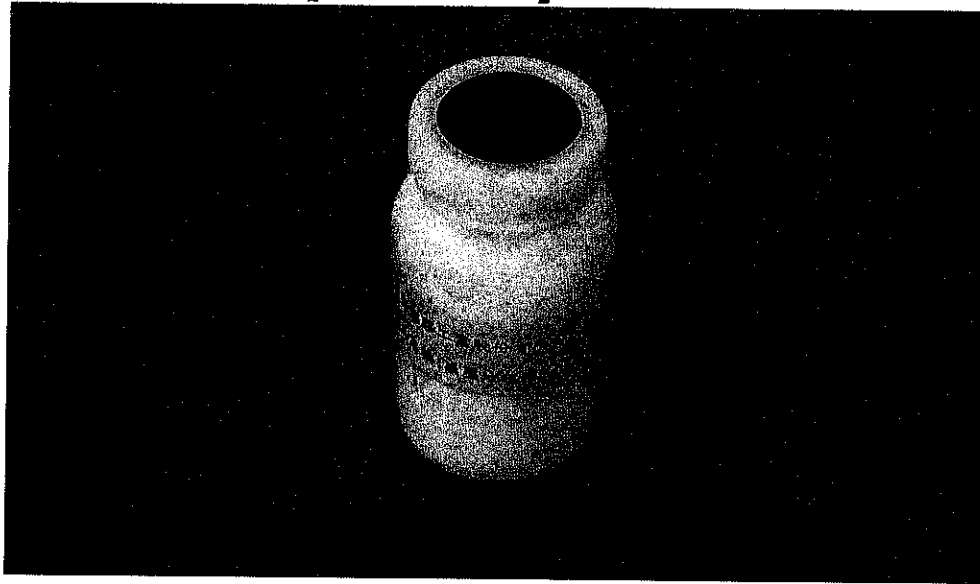
RL = 0.001% is evaluated for element (i.e. aluminum, antimony, arsenic, barium, boron, cadmium, calcium, chromium, chromium (VI), cobalt, lead, potassium, titanium, silicon, sodium, strontium, zinc and zirconium respectively), except molybdenum RL = 0.0001%

3. The table above only shows detected SVHC, and SVHC that below RL are not reported. Please refer to Appendix for the full list of tested SVHC.

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Sample photo:

KE/2017/42070



SGS authenticate the photo on original report only

*** End of Report ***

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SGS Taiwan Ltd. Chemical Laboratory-Kaohsiung

Test Report

KE/2017/42070

Date : Apr 28, 2017

Page 5 of 11

Appendix

No.	Substance Name	CAS No./ EC No.	RL (%)	No.	Substance Name	CAS No./ EC No.	RL (%)
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Oct 28, 2008							
1	4,4'-Diaminodiphenylmethane (MDA)	101-77-9/ 202-974-4	0.010	2	5-tert-butyl-2,4,6-trinitro- <i>m</i> -xylene (musk xylene)	81-15-2/ 201-329-4	0.010
3	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8/ 287-476-5	0.010	4	Anthracene	120-12-7/ 204-371-1	0.010
5	Benzyl butyl phthalate (BBP)	85-68-7/ 201-622-7	0.010	6	Bis(2-ethylhexyl)phthalate (DEHP)	117-81-7/ 204-211-0	0.010
7	Bis(tributyltin)oxide (TBTO)	56-35-9/ 200-268-0	0.010	8	Cobalt dichloride*	7646-79-9/ 231-589-4	0.001
9	Diarsenic pentaoxide*	1303-28-2/ 215-116-9	0.001	10	Diarsenic trioxide*	1327-53-3/ 215-481-4	0.001
11	Dibutyl phthalate (DBP)	84-74-2/ 201-557-4	0.010	12	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α -HBCDD, β -HBCDD, γ -HBCDD)	25637-99-4/ 247-148-4; 3194-55-6/ 221-695-9; (134237-50-6/-; 134237-51-7/-; 134237-52-8/-)	0.010
13	Lead hydrogen arsenate*	7784-40-9/ 232-064-2	0.001	14	Sodium dichromate*	7789-12-0 10588-01-9/ 234-190-3	0.001
15	Triethyl arsenate*	15606-95-8/ 427-700-2	0.001				
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jan 13, 2010							
16	2,4-Dinitrotoluene	121-14-2/ 204-450-0	0.010	17	Anthracene oil*	90640-80-5/ 292-602-7	0.010
18	Anthracene oil, anthracene paste*	90640-81-6/ 292-603-2	0.010	19	Anthracene oil, anthracene paste, anthracene fraction*	91995-15-2/ 295-275-9	0.010
20	Anthracene oil, anthracene paste; distr. Lights*	91995-17-4/ 295-278-5	0.010	21	Anthracene oil, anthracene-low*	90640-82-7/ 292-604-8	0.010
22	Diisobutyl phthalate	84-69-5/ 201-553-2	0.010	23	Lead chromate molybdate sulfate red (C.I. Pigment Red 104)*	12656-85-8/ 235-759-9	0.001
24	Lead chromate*	7758-97-6/ 231-846-0	0.001	25	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2/ 215-693-7	0.001
26	Pitch, coal tar, high temp.*	65996-93-2/ 266-028-2	0.010	27	Tris(2-chloroethyl)phosphate	115-96-8/ 204-118-5	0.010
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Mar 30, 2010							
28	Acrylamide	79-06-1/ 201-173-7	0.010				

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TWC1427172



SGS Taiwan Ltd. Chemical Laboratory-Kaohsiung

Test Report

KE/2017/42070

Date : Apr 28, 2017

Page 6 of 11

No.	Substance Name	CAS No./ EC No.	RL (%)	No.	Substance Name	CAS No./ EC No.	RL (%)
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jun 18, 2010							
29	Ammonium dichromate*	7789-09-5/ 232-143-1	0.001	30	Boric acid*	10043-35-3/ 233-139-2; 11113-50-1/ 234-343-4	0.001
31	Disodium tetraborate, anhydrous*	1303-96-4 1330-43-4 12179-04-3/ 215-540-4	0.001	32	Potassium chromate*	7789-00-6/ 232-140-5	0.001
33	Potassium dichromate*	7778-50-9/ 231-906-6	0.001	34	Sodium chromate*	7775-11-3/ 231-889-5	0.001
35	Tetraboron disodium heptaoxide, hydrate*	12267-73-1/ 235-541-3	0.001	36	Trichloroethylene	79-01-6/ 201-167-4	0.010
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Dec 15, 2010							
37	2-Ethoxyethanol	110-80-5/ 203-804-1	0.010	38	2-Methoxyethanol	109-86-4/ 203-713-7	0.010
39	Acids generated from chromium trioxide and their oligomers: Chromic acid Dichromic acid Oligomers of chromic acid and dichromic acid*	7738-94-5/ 231-801-5; 13530-68-2/ 236-881-5	0.001	40	Chromium trioxide*	1333-82-0/ 215-607-8	0.001
41	Cobalt(II) carbonate*	513-79-1/ 208-169-4	0.001	42	Cobalt(II) diacetate*	71-48-7/ 200-755-8	0.001
43	Cobalt(II) dinitrate*	10141-05-6/ 233-402-1	0.001	44	Cobalt(II) sulphate*	10124-43-3/ 233-334-2	0.001
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jun 20, 2011							
45	1,2,3-Trichloropropane	96-18-4/ 202-486-1	0.010	46	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6/ 276-158-1	0.010
47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4/ 271-084-6	0.010	48	1-Methyl-2-pyrrolidone	872-50-4/ 212-828-1	0.010
49	2-Ethoxyethyl acetate	111-15-9/ 203-839-2	0.010	50	Hydrazine	7803-57-8 302-01-2/ 206-114-9	0.010
51	Strontium chromate*	7789-06-2/ 232-142-6	0.001				
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Dec 19, 2011							
52	1,2-Dichloroethane	107-06-2/ 203-458-1	0.010	53	2,2'-dichloro-4,4'- methylenedianiline (MOCA)	101-14-4/ 202-918-9	0.010

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TWC1427171

SGS Taiwan Ltd.
台灣檢驗科技股份有限公司

No.61, Kai-Fa Road, Nanzih Export Processing Zone, Kaohsiung, Taiwan / 高雄市楠梓加工出口區開發路61號
t (886-7) 301-2121 f (886-7) 301-0867

www.sgs.tw
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SGS Taiwan Ltd. Chemical Laboratory-Kaohsiung

Test Report

KE/2017/42070

Date : Apr 28, 2017

Page 7 of 11

No.	Substance Name	CAS No./ EC No.	RL (%)	No.	Substance Name	CAS No./ EC No.	RL (%)
54	2-Methoxyaniline	90-04-0/ 201-963-1	0.010	55	4-tert-Octylphenol	140-66-9/ 205-426-2	0.010
56	Aluminosilicate Refractory Ceramic Fibres*	650-017-00-8 (Index no.)	0.001	57	Arsenic acid*	7778-39-4/ 231-901-9	0.001
58	Bis(2-methoxyethyl) ether	111-96-6/ 203-924-4	0.010	59	Bis(2-methoxyethyl) phthalate	117-82-8/ 204-212-6	0.010
60	Calcium arsenate*	7778-44-1/ 231-904-5	0.001	61	Dichromium tris(chromate)*	24613-89-6/ 246-356-2	0.001
62	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4/ 500-036-1	0.010	63	Lead diazide*	13424-46-9/ 236-542-1	0.001
64	Lead dipicrate*	6477-64-1/ 229-335-2	0.001	65	Lead styphnate*	15245-44-0/ 239-290-0	0.001
66	N,N-dimethylacetamide (DMAC)	127-19-5/ 204-826-4	0.010	67	Pentazinc chromate octahydroxide*	49663-84-5/ 256-418-0	0.001
68	Phenolphthalein	77-09-8/ 201-004-7	0.010	69	Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9/ 234-329-8	0.001
70	Trilead diarsenate*	3687-31-8/ 222-979-5	0.001	71	Zirconia Aluminosilicate Refractory Ceramic Fibres*	650-017-00-8 (Index no.)	0.001

Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jun 18, 2012

72	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)	2580-56-5/ 219-943-6	0.010	73	[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)	548-62-9/ 208-953-6	0.010
74	1,2-bis(2-methoxyethoxy) ethane (TEGDME; triglyme)	112-49-2/ 203-977-3	0.010	75	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4/ 203-794-9	0.010
76	4,4'-bis(dimethylamino) benzophenone (Michler's Ketone)	90-94-8/ 202-027-5	0.010	77	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	561-41-1/ 209-218-2	0.010
78	Diboron trioxide*	1303-86-2/ 215-125-8	0.001	79	Formamide	75-12-7/ 200-842-0	0.010
80	Lead(II) bis(methanesulfonate)*	17570-76-2/ 401-750-5	0.001	81	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1/ 202-959-2	0.010
82	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)	2451-62-9/ 219-514-3	0.010	83	α,α-Bis[4-(dimethylamino)phenyl]-4-(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	6786-83-0/ 229-851-8	0.010
84	β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6/ 423-400-0	0.010				

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SGS Taiwan Ltd. Chemical Laboratory-Kaohsiung

Test Report

KE/2017/42070

Date : Apr 28, 2017

Page 8 of 11

No.	Substance Name	CAS No./ EC No.	RL (%)	No.	Substance Name	CAS No./ EC No.	RL (%)
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Dec 19, 2012							
85	[Phthalato(2-)]dioxotrilead*	69011-06-9/ 273-688-5	0.001	86	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0/ 284-032-2	0.010
87	1,2-Diethoxyethane	629-14-1/ 211-076-1	0.010	88	1-Bromopropane	106-94-5/ 203-445-0	0.010
89	3-Ethyl-2-methyl-2-(3- methylbutyl)-1,3-oxazolidine	143860-04-2/ 421-150-7	0.010	90	4-(1,1,3,3- tetramethylbutyl)phenol, ethoxylated	-	0.010
91	4,4'-Methylenedi- <i>o</i> -toluidine	838-88-0/ 212-658-8	0.010	92	4,4'-Oxydianiline	101-80-4/ 202-977-0	0.010
93	4-Aminoazobenzene	60-09-3/ 200-453-6	0.010	94	4-Methyl- <i>m</i> -phenylenediamine	95-80-7/ 202-453-1	0.010
95	4-Nonylphenol, branched and linear	-	0.010	96	6-Methoxy- <i>m</i> -toluidine	120-71-8/ 204-419-1	0.010
97	Acetic acid, lead salt, basic*	51404-69-4/ 257-175-3	0.001	98	Biphenyl-4-ylamine	92-67-1/ 202-177-1	0.010
99	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5/ 214-604-9	0.010	100	C,C'-azodi(formamide) (ADCA)	123-77-3/ 204-650-8	0.010
101	Dibutyltin dichloride (DBT)	683-18-1/ 211-670-0	0.010	102	Diethyl sulphate	64-67-5/ 200-589-6	0.010
103	Diisopentylphthalate (DIPP)	605-50-5/ 210-088-4	0.010	104	Dimethyl sulphate	77-78-1/ 201-058-1	0.010
105	Dinoseb	88-85-7/ 201-861-7	0.010	106	Dioxobis(stearato)trilead*	12578-12-0/ 235-702-8	0.001
107	Fatty acids, C16-18, lead salts*	91031-62-8/ 292-966-7	0.001	108	Furan	110-00-9/ 203-727-3	0.010
109	Henicosafuoroundecanoic acid	2058-94-8/ 218-165-4	0.010	110	Heptacosafuorotetradecanoic acid	376-06-7/ 206-803-4	0.010
111	Hexahydro-2-benzofuran-1,3- dione, cis-cyclohexane-1,2- dicarboxylic anhydride, trans-cyclohexane-1,2- dicarboxylic anhydride	85-42-7/ 201-604-9; 13149-00-3/ 236-086-3; 14166-21-3/ 238-009-9	0.010	112	Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	25550-51-0/ 247-094-1; 19438-60-9/ 243-072-0; 48122-14-1/ 256-356-4; 57110-29-9/ 260-566-1	0.010
113	Lead bis(tetrafluoroborate)*	13814-96-5/ 237-486-0	0.001	114	Lead cyanamidate*	20837-86-9/ 244-073-9	0.001
115	Lead dinitrate*	10099-74-8/ 233-245-9	0.001	116	Lead monoxide*	1317-36-8/ 215-267-0	0.001
117	Lead oxide sulphate*	12036-76-9/ 234-853-7	0.001	118	Lead tetroxide*	1314-41-6/ 215-235-6	0.001

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SGS Taiwan Ltd. Chemical Laboratory-Kaohsiung

Test Report

KE/2017/42070

Date : Apr 28, 2017

Page 9 of 11

No.	Substance Name	CAS No./ EC No.	RL (%)	No.	Substance Name	CAS No./ EC No.	RL (%)
119	Lead titanium trioxide*	12060-00-3/ 235-038-9	0.001	120	Lead titanium zirconium oxide*	12626-81-2/ 235-727-4	0.001
121	Methoxyacetic acid	625-45-6/ 210-894-6	0.010	122	N,N-Dimethylformamide	68-12-2/ 200-679-5	0.010
123	N-Methylacetamide	79-16-3/ 201-182-6	0.010	124	N-Pentyl-isopentylphthalate	776297-69-9 /-	0.010
125	o-Aminoazotoluene	97-56-3/ 202-591-2	0.010	126	o-Toluidine	95-53-4/ 202-429-0	0.010
127	Pentacosafuorotridecanoic acid	72629-94-8/ 276-745-2	0.010	128	Pentalead tetraoxide sulphate*	12065-90-6/ 235-067-7	0.001
129	Propylene oxide	75-56-9/ 200-879-2	0.010	130	Pyrochlore, antimony lead yellow*	8012-00-8/ 232-382-1	0.001
131	Silicic acid, barium salt, lead-doped*	68784-75-8/ 272-271-5	0.001	132	Silicic acid, lead salt*	11120-22-2/ 234-363-3	0.001
133	Sulfurous acid, lead salt, dibasic*	62229-08-7/ 263-467-1	0.001	134	Tetraethyllead*	78-00-2/ 201-075-4	0.001
135	Tetralead trioxide sulphate*	12202-17-4/ 235-380-9	0.001	136	Tricosafuorododecanoic acid	307-55-1/ 206-203-2	0.010
137	Trilead bis(carbonate)dihydroxide*	1319-46-6/ 215-290-6	0.001	138	Trilead dioxide phosphonate*	12141-20-7/ 235-252-2	0.001
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jun 20, 2013							
139	4-Nonylphenol, branched and linear, ethoxylated	-	0.010	140	Ammoniumpentadecafluoro octanoate (APFO)	3825-26-1/ 223-320-4	0.010
141	Cadmium	7440-43-9/ 231-152-8	0.001	142	Cadmium oxide*	1306-19-0/ 215-146-2	0.001
143	Di-n-pentyl phthalate	131-18-0/ 205-017-9	0.010	144	Pentadecafluorooctanoic acid (PFOA)	335-67-1/ 206-397-9	0.010
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Dec 16, 2013							
145	Cadmium sulphide*	1306-23-6/ 215-147-8	0.001	146	Dihexyl phthalate	84-75-3/ 201-559-5	0.010
147	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0/ 209-358-4	0.010	148	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo] -5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7/ 217-710-3	0.010
149	Imidazolidine-2-thione; 2-imidazoline-2-thiol	96-45-7/ 202-506-9	0.010	150	Lead di(acetate)*	301-04-2/ 206-104-4	0.001
151	Trixylyl phosphate	25155-23-1/ 246-677-8	0.010				

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TWC1427168

Test Report

KE/2017/42070

Date : Apr 28, 2017

Page 10 of 11

No.	Substance Name	CAS No./ EC No.	RL (%)	No.	Substance Name	CAS No./ EC No.	RL (%)
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jun 16, 2014							
152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4/ 271-093-5	0.010	153	Cadmium chloride*	10108-64-2/ 233-296-7	0.001
154	Sodium perborate; perboric acid, sodium salt*	- / 234-390-0; 239-172-9	0.001	155	Sodium peroxometaborate*	7632-04-4/ 231-556-4	0.001
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Dec 17, 2014							
156	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7 / 223-346-6	0.010	157	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1 / 247-384-8	0.010
158	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate; DOTE	15571-58-1 / 239-622-4	0.010	159	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)	-	0.010
160	Cadmium fluoride*	7790-79-6 / 232-222-0	0.001	161	Cadmium sulphate*	10124-36-4; 31119-53-6 / 233-331-6	0.001
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jun 15, 2015							
162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (EC No. 201-559-5)	68515-51-5; 68648-93-1/ 271-094-0; 272-013-1	0.010	163	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]	-	0.010
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Dec 17, 2015,							
164	1,3-propanesultone	1120-71-4 / 214-317-9	0.010	165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1 / 223-383-8	0.010
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3 / 253-037-1	0.010	167	Nitrobenzene	98-95-3 / 202-716-0	0.010
168	Perfluorononan-1-oic acid (2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-hepta-decafluorononanoic acid and its sodium and ammonium salts	375-95-1; 21049-39-8; 4149-60-4 / 206-801-3	0.010				

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TWC1427167



SGS Taiwan Ltd. Chemical Laboratory-Kaohsiung

Test Report

KE/2017/42070

Date : Apr 28, 2017

Page 11 of 11

No.	Substance Name	CAS No./ EC No.	RL (%)	No.	Substance Name	CAS No./ EC No.	RL (%)
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jun 20, 2016							
169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8 / 200-028-5	0.010				
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jan 12, 2017							
170	4,4'-Isopropylidenediphenol (Bisphenol A)	80-05-7 / 201-245-8	0.010	171	4-Heptylphenol, branched and linear	-	0.010
172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salt	335-76-2; 3830-45-3; 3108-42-7/ 206-400-3; -; 221-470-5	0.010	173	p-(1,1-dimethylpropyl)phenol	80-46-6 / 201- 280-9	0.010

Notes:

1. RL = Reporting Limit. All RL are based on homogenous material
2. * The test result is based on the calculation of selected element(s) / marker(s) and to the worst-case scenario. For detail information, please refer to the SGS REACH website:

<http://www.sgs.com/en/Consumer-Goods-Retail/Toys-and-Juvenile-Products/Toys/REACH/Management-of-SVHC.aspx>

The client is advised to review the chemical formulation to ascertain above metal substances present in the article.

RL = 0.001% is evaluated for element (i.e. aluminum, antimony, arsenic, barium, boron, cadmium, calcium, chromium, chromium (VI), cobalt, lead, potassium, titanium, silicon, sodium, strontium, zinc and zirconium respectively), except molybdenum RL = 0.0001%

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